Kaowool 1400 Paper

Datasheet Code 5-7-28 E

MSDS Code 104-9-EURO REACH

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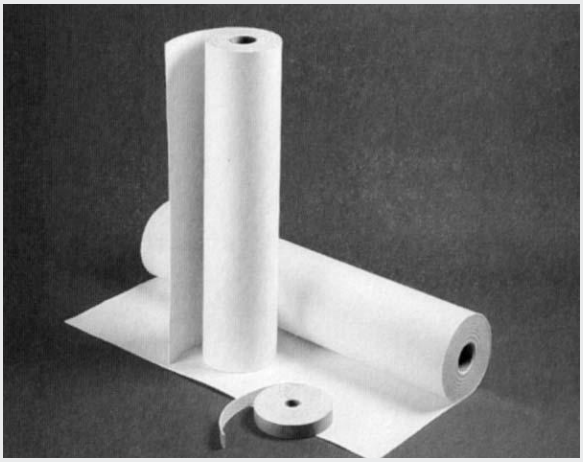

DESCRIPTION

Kaowool 1400 Paper is manufactured from high purity refractory fibres and designed for high temperature insulation. Advanced production techniques ensure uniform fibre distribution and close control of thickness and density.

Kaowool 1400 Paper is produced from Alumina-Silicate fibres with the minimum addition of carefully selected bonds, which burn out cleanly in service. Kaowool 1400 Paper exhibits excellent strength, flexibility and good handling characteristics. Other beneficial properties include low thermal conductivity, low thermal mass and exceptionally high thermal shock resistance.

TYPE

Refractory Ceramic Fibre Paper

CLASSIFICATION TEMPERATURE

1400°C

The maximum continuous use temperature depends on the application. In case of doubt, refer to your local Morgan Thermal Ceramics distributor for advice.

MAIN PROPERTIES

Classification temperature	°C	1400
Typical Physical Properties		
Colour		white
Density	kg/m^3	210
Melting point (minimum)	°C	1760
Tensile strength	kN/M2	750
Mean fibre diameter	microns	2-3
Thickness measurement pressure	kPa	10
High Temperature Performance		
Binder content/loss of ignition	%	6
Shrinkage (4 hours at 1400°C)	%	3

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High Temperature Performance (continued)

Thermal conductivity (BS 1902 Part 6) at mean temperature of:

400°C	W/m.K	0.089
600°C	W/m.K	0.132
800°C	W/m.K	0.197
1000°C	W/m.K	0.293
1200°C	W/m.K	0.436

Acoustic absorption coefficient (BS 3638) - 2.0mm thickness:

Frequency (HZ)	Coefficient
100	0.05
500	0.02
1000	0.07
2000	0.26
4000	0.50

Indicative heat loss table:

Hot Face	Insulation Thickness				
	0.5mm	1.0mm	2.0mm	4.0mm	8.0mm
538°C	400	335	268	202	145
649°C	471	395	316	239	172
760°C	-	456	364	276	200
871°C	-	516	413	315	229
982°C	-	-	462	353	258
1093°C	-	-	510	393	290
1204°C	-	-	-	433	321
1260°C	-	-	-	453	337

Chemical Composition

Alumina	%	48-54
Silica	%	46-52
Other oxides	%	<5

Combustibility

Alumino-Silicate refractory fibres are non-combustible when tested in accordance with BS 476, Part 4.

Availability and Packaging

Thicknesses available: 0.5mm, 1.0mm, 2.0mm, 3.0mm & 4.0mm.
Standard roll widths: 500mm, 610mm, 1000mm & 1220mm.

The values given herein are typical values obtained in accordance with accepted test methods and are subject to normal manufacturing variations.
They are supplied as a technical service and are subject to change without notice. Therefore, the data contained herein should not be used for specification purposes.
Check with your Thermal Ceramics office to obtain current information.